Course Descriptions None 2022-2023

Course Title	Data Visualization
Course Code	EBC4225
ECTS Credits	5,0
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
5	17-4-2023	9-6-2023		X		X	

Level	Advanced
Coordinator	Lars Rieser For more information:l.rieser@maastrichtuniversity.nl
Language of instruction	English
Goals	This course is an introduction to the field of Data Visualization. Students will learn the fundamentals of data visualization. We will study different visualization methods and discuss how they can be used to visualize and explore quantitative datasets effectively. We will evaluate several approaches and learn how human perception interprets visualized data in various different ways.
Description	PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. A RE-EMERGENCE OF THE CORONAVIRUS AND NEW COUNTERMEASURES BY THE DUTCH GOVERNMENT MIGHT FORCE COORDINATORS TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS. Over the last decades organizations have started to accumulate enormous amounts of data both through their internal information systems as well as from external sources such as sensors or external vendors. While this data is partly used to support algorithmic and automized decision-making, many tasks still require a human in the decision-making process. For these types of processes, it often becomes necessary to present complex, multidimensional datasets in a way that supports knowledge discovery or understanding. To do so efficiently and effectively, visualization designers need to have a fundamental understanding of the principles governing human visual perception as well as how to translate these principles into best practices. In this course students will develop both, academic skills related to the systematic and scientific design of visualizations as well as practical knowledge on how to implement these theoretical skills using the Tableau Desktop Software Package.
Literature	Textbook, Academic Articles
Prerequisites	There are no formal prerequisites.
Keywords	
Teaching methods	Lecture / Groupwork
Assessment methods	Final Paper / Participation / Assignment
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM

This course belongs to the following programme / specialisation

Master Business Intelligence and Smart Services	Core Course(s)